## Focus Area 24: Respiratory Diseases

**Objective 24-1a** targets an overall reduction in the asthma death rate for children under age five years to 0.9 per 1,000,000 population.

California data extracted from the Death Statistical Master Files show an average of 5.8 children under the age of five had asthma listed as an underlying cause of death during five-year period 2000-2004 (Table 24-1a). Reliable asthma death rates could not be calculated for the total population under age five in any single year, nor by gender due to the small number of events. No asthma deaths were reported for the American Indian/Alaska Native, Pacific Islander, and the Multirace populations under age five, and the HP2010 objective is being achieved for these groups. In the absence of reliable rates for the remaining racial and ethnic populations, it remains unknown whether this objective is being achieved for them.

**Objective 24-1b** targets an overall reduction in the asthma death rate for children aged 5-14 years to 0.9 per 1,000,000 population.

California data extracted from the Death Statistical Master Files show a total of 21 children aged 5-14 had asthma listed as the underlying cause of death in 2000, at a rate of 4.0 per 1,000,000 population (Table 24-1b). The HP2010 objective was not being achieved for this age group as of 2000. In 2001 there were nine asthma deaths reported for this age group, ten in 2002 and 2003, and 11 in 2004. Reliable death rates could not be calculated for the total population aged 5-14, nor for any subpopulation by race-ethnicity or by gender due to the small number of events occurring from 2001 through 2004.

For more information on asthma in California, visit the California Asthma Public Health Initiative Web site at:

http://www.dhs.ca.gov/ps/cdic/cdcb/Medicine/Asthma/index.htm

For more information on Healthy People 2010 objective 24-1, please visit:

http://www.healthypeople.gov/Document/HTML/Volume2/24Respiratory.htm#\_Toc489704825

and

http://www.healthypeople.gov/Document/html/tracking/od24.htm#asthma

Table 24-1a: Asthma Deaths and Death Rates Among Persons Under Age 5, California 2000-2004

Asthma Deaths, Persons Under 5*		200	00					
			Lower	Upper			Lower	Upper
	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
Healthy People 2010 Objective 24-1a		0.9				0.9		
Statewide Total	5	DSU			6	DSU		
Race-Ethnicity								
African American/Black	3	DSU			1	DSU		
American Indian/Alaska Native	0	0.0			0	0.0		
Asian	0	0.0			0	0.0		
Pacific Islander	0	0.0			0	0.0		
Hispanic/Latino	1	DSU			3	DSU		
White	1	DSU			2	DSU		
Multirace	0	0.0			0	0.0		
Gender								
Female	2	DSU			3	DSU		
Male	3	DSU			3	DSU		

Asthma Deaths, Persons Under 5*		20	02			200	03	
			Lower	Upper			Lower	Upper
	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
Healthy People 2010 Objective 24-1a		0.9				0.9		
Statewide Total	5	DSU			7	DSU		
Race-Ethnicity								
African American/Black	2	DSU			2	DSU		
American Indian/Alaska Native	0	0.0			0	0.0		
Asian	1	DSU			1	DSU		
Pacific Islander	0	0.0			0	0.0		
Hispanic/Latino	1	DSU			3	DSU		
White	1	DSU			1	DSU		
Multirace	0	0.0			0	0.0		
Gender								
Female	1	DSU			2	DSU		
Male	4	DSU			5	DSU		

Asthma Deaths, Persons Under 5*		200	)4			
			Lower	Upper	5-year	HP2010 Objective
	N	Rate <sup>1</sup>	C.I.	C.I.	Trend	Being Achieved?
Healthy People 2010 Objective 24-1a		0.9				
Statewide Total	6	DSU			n/a	Unk
Race-Ethnicity						
African American/Black	2	DSU			n/a	Unk
American Indian/Alaska Native	0	0.0			ns	Yes
Asian	1	DSU			n/a	Unk
Pacific Islander	0	0.0			ns	Yes
Hispanic/Latino	2	DSU			n/a	Unk
White	1	DSU			n/a	Unk
Multirace	0	0.0			ns	Yes
Gender						
Female	1	DSU			n/a	Unk
Male	5	DSU			n/a	Unk

SOURCES: CA Department of Health Services, Death Records, 2000-2004; CA Department of Finance, Demographic Research Unit, Population Projections by Race/Ethnicity for California and Its Counties 2000-2050, May 2004.

NOTES: \* Asthma deaths defined by ICD-10 codes J45-J46.

<sup>&</sup>lt;sup>1</sup> Rate per 1,000,000 population under 5 years of age.

n/a Not applicable (fewer than five data points); ns No statistically significant trend.

DSU Data statistically unreliable (Relative Standard Error greater than 23 percent).

Table 24-1b: Asthma Deaths and Death Rates Among Persons Aged 5-14 Years, California 2000-2004

Asthma Deaths, Persons Aged 5-14*		20	00			200	01	
			Lower	Upper			Lower	Upper
	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
Healthy People 2010 Objective 24-1b		0.9				0.9		
Statewide Total	21	4.0	2.3	5.6	9	DSU		
Race-Ethnicity								
African American/Black	6	DSU			3	DSU		
American Indian/Alaska Native	0	0.0			0	0.0		
Asian	3	DSU			1	DSU		
Pacific Islander	0	0.0			0	0.0		
Hispanic/Latino	5	DSU			1	DSU		
White	7	DSU			4	DSU		
Multirace	0	0.0			0	0.0		
Gender								
Female	7	DSU			4	DSU		
Male	14	DSU			5	DSU		

Asthma Deaths, Persons Aged 5-14*		200	02			200	03	
			Lower	Upper			Lower	Upper
	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
Healthy People 2010 Objective 24-1b		0.9				0.9		
Statewide Total	10	DSU			10	DSU		
Race-Ethnicity								
African American/Black	7	DSU			3	DSU		
American Indian/Alaska Native	0	0.0			0	0.0		
Asian	1	DSU			0	0.0		
Pacific Islander	0	0.0			1	DSU		
Hispanic/Latino	1	DSU			5	DSU		
White	1	DSU			1	DSU		
Multirace	0	0.0			0	0.0		
Gender								
Female	6	DSU			2	DSU		
Male	4	DSU			8	DSU		

Asthma Deaths, Persons Aged 5-14*	-14* 2004					
			Lower	Upper	5-year	HP2010 Objective
	N	Rate <sup>1</sup>	C.I.	C.I.	Trend	Being Achieved?
Healthy People 2010 Objective 24-1b		0.9				
Statewide Total	11	DSU			n/a	Unk
Race-Ethnicity						
African American/Black	5	DSU			n/a	Unk
American Indian/Alaska Native	0	0.0			ns	Yes
Asian	1	DSU			n/a	Unk
Pacific Islander	0	0.0			n/a	Unk
Hispanic/Latino	3	DSU			n/a	Unk
White	1	DSU			n/a	Unk
Multirace	1	DSU			n/a	Unk
Gender						
Female	4	DSU			n/a	Unk
Male	7	DSU			n/a	Unk

SOURCES: CA Department of Health Services, Death Records, 2000-2004; CA Department of Finance, Demographic Research Unit, Population Projections by Race/Ethnicity for California and Its Counties 2000-2050, May 2004.

NOTES: \* Asthma deaths defined by ICD-10 codes J45-J46.

<sup>&</sup>lt;sup>1</sup> Rate per 1,000,000 population aged 5-14 years.

n/a Not applicable (fewer than five data points); ns No statistically significant trend.

DSU Data statistically unreliable (Relative Standard Error greater than 23 percent).

## Focus Area 24: Respiratory Diseases

**Objective 24-1c** targets an overall reduction in the asthma death rate for persons aged 15-34 years to 1.9 per 1,000,000 population.

Asthma death rates among Californians aged 15-34 declined from 4.0 per 1,000,000 population in 2000 to 3.7 per 1,000,000 in 2004, but this was not a statistically significant trend (Figure 24-1c, Table 24-1c). Annual asthma death rates were significantly higher than the HP2010 target, and this objective is not being achieved for the total population as of 2004.

Examined by gender, asthma death rates for males aged 15-34 increased from 4.0 per 1,000,000 in 2000 to 4.9 in 2004. With the exception of instances where zero deaths were reported, only one reliable asthma death rate was found for females: 4.3 per 1,000,000 in 2001. The HP2010 objective is not being achieved for males, and it remains unknown whether it will be achieved for females.

Only one asthma death rate by race/ethnicity was found to be reliable: in 2000 there were 21 deaths among Whites aged 15-34, at a rate of 5.4 per 1,000,000 population. This rate was significantly higher than the HP2010 target of 1.9 per 1,000,000. No asthma deaths were reported for the Pacific Islander population aged 15-34 during the 2000-2004 time period, and the HP2010 objective is being achieved for this group.

For more information on asthma in California, visit the California Asthma Public Health Initiative Web site at:

http://www.dhs.ca.gov/ps/cdic/cdcb/Medicine/Asthma/index.htm

For more information on Healthy People 2010 objective 24-1, please visit:

http://www.healthypeople.gov/Document/HTML/Volume2/24Respiratory.htm# Toc489704825

and

http://www.healthypeople.gov/Document/html/tracking/od24.htm#asthma

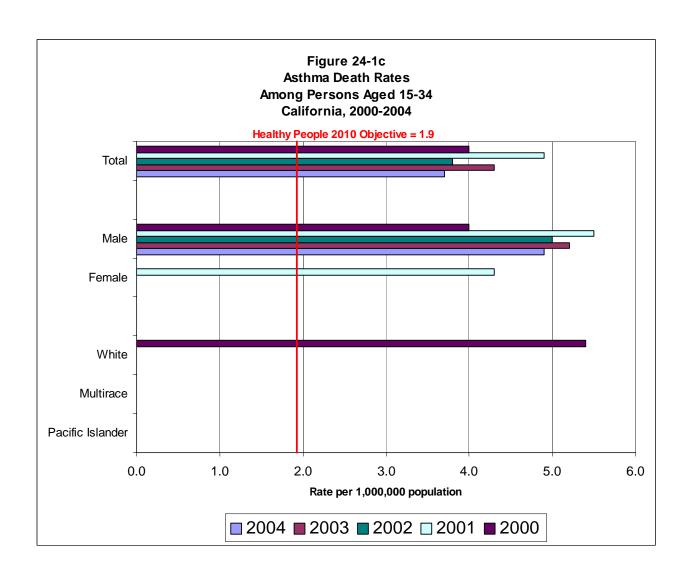


Table 24-1c: Asthma Deaths and Death Rates Among Persons Aged 15-34 Years, California 2000-2004

Asthma Deaths, Persons Aged 15-34*		200	00			)1		
			Lower	Upper			Lower	Upper
	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
Healthy People 2010 Objective 24-1c		1.9				1.9		
Statewide Total	40	4.0	2.7	5.2	50	4.9	3.5	6.2
Race-Ethnicity								
African American/Black	11	DSU			18	DSU		
American Indian/Alaska Native	0	0.0			0	0.0		
Asian	3	DSU			3	DSU		
Pacific Islander	0	0.0			0	0.0		
Hispanic/Latino	5	DSU			10	DSU		
White	21	5.4	3.1	7.7	19	DSU		
Multirace	0	0.0			0	0.0		
Gender								
Female	19	DSU			21	4.3	2.4	6.1
Male	21	4.0	2.3	5.7	29	5.5	3.5	7.5

Asthma Deaths, Persons Aged 15-34*		200	02			200	)3	
			Lower	Upper			Lower	Upper
	N	Rate <sup>1</sup>	C.I.	C.I.	N	Rate <sup>1</sup>	C.I.	C.I.
Healthy People 2010 Objective 24-1c		1.9				1.9		
Statewide Total	39	3.8	2.6	5.0	45	4.3	3.1	5.6
Race-Ethnicity								
African American/Black	10	DSU			17	DSU		
American Indian/Alaska Native	1	DSU			1	DSU		
Asian	2	DSU			3	DSU		
Pacific Islander	0	0.0			0	0.0		
Hispanic/Latino	9	DSU			8	DSU		
White	17	DSU			15	DSU		
Multirace	0	0.0			0	0.0		
Gender								
Female	12	DSU			17	DSU		
Male	27	5.0	3.1	6.9	28	5.2	3.3	7.1

Asthma Deaths, Persons Aged 15-34*		200	04			
			Lower	Upper	5-year	HP2010 Objective
	N	Rate <sup>1</sup>	C.I.	C.I.	Trend	Being Achieved?
Healthy People 2010 Objective 24-1c		1.9				
Statewide Total	39	3.7	2.5	4.9	ns	No
Race-Ethnicity						
African American/Black	11	DSU			n/a	Unk
American Indian/Alaska Native	1	DSU			n/a	Unk
Asian	2	DSU			n/a	Unk
Pacific Islander	0	0.0			ns	Yes
Hispanic/Latino	13	DSU			n/a	Unk
White	10	DSU			n/a	Unk
Multirace	2	DSU			n/a	Unk
Gender						
Female	12	DSU			n/a	Unk
Male	27	4.9	3.1	6.8	ns	No

SOURCES: CA Department of Health Services, Death Records, 2000-2004; CA Department of Finance, Demographic Research Unit, Population Projections by Race/Ethnicity for California and Its Counties 2000-2050, May 2004. NOTES: \* Asthma deaths defined by ICD-10 codes J45-J46.

<sup>&</sup>lt;sup>1</sup> Rate per 1,000,000 population aged 15-34 years.

ns No significant trend as measured by linear regression analysis; n/a Not applicable (fewer than five data points).

DSU Data statistically unreliable (Relative Standard Error greater than 23 percent).